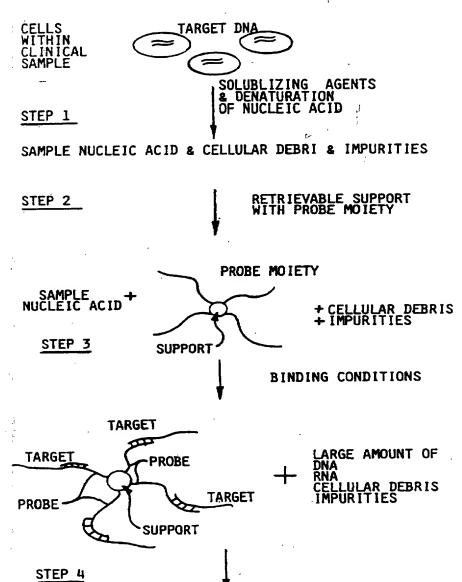


FIG. 1a



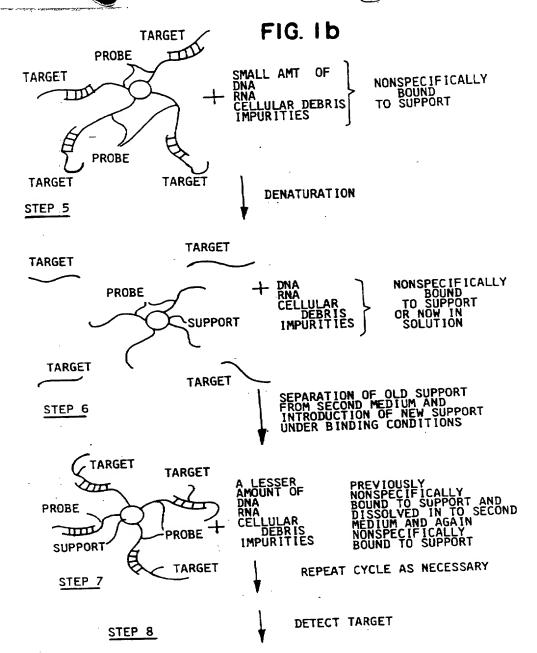
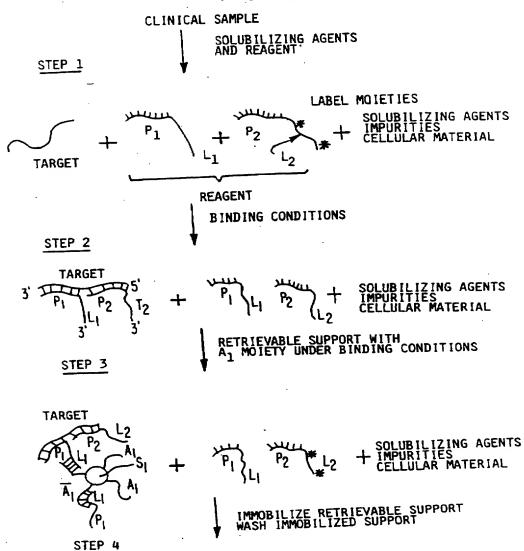


FIG. 2a



STEP 8

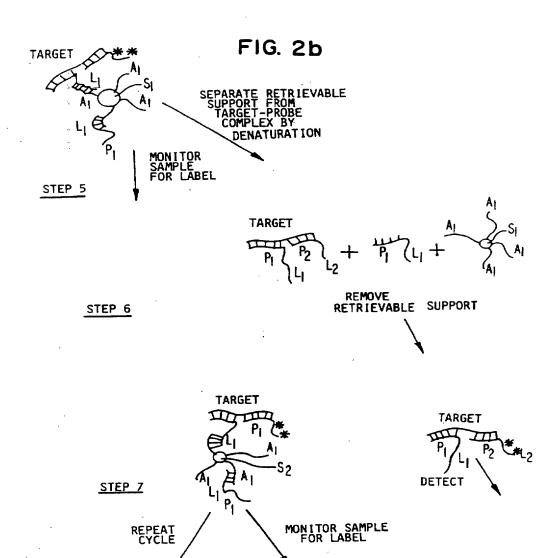


FIG. 3

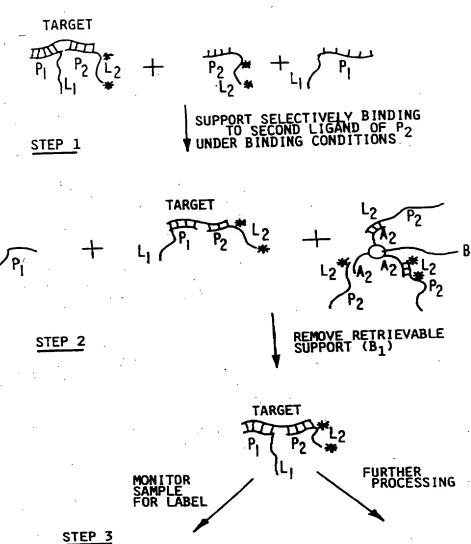
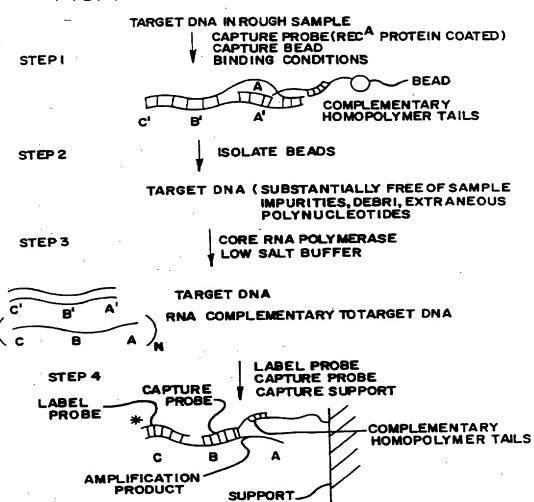


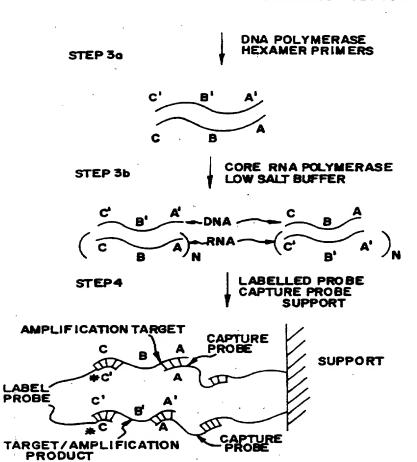
FIG.4



TARGET ON A IN ROUGH SAMPLE FIG. 5 CAPTURE PROBE CAPTURE BEAD STEP I BEAD C' COMPLEMENTARY HOMOPOLYMER TAILS ISOLATE BEADS

STEP 2

TARGET DNA (SUBSTANTIALLY FREE OF SAMPLE IMPURITIES, DEBRI, EXTRANEOUS POLYNUCLEOTIDES)



STEP 1

CAPTURE PROBE
CAPTURE BEAD

CAPTURE A
PROBE
TARGET

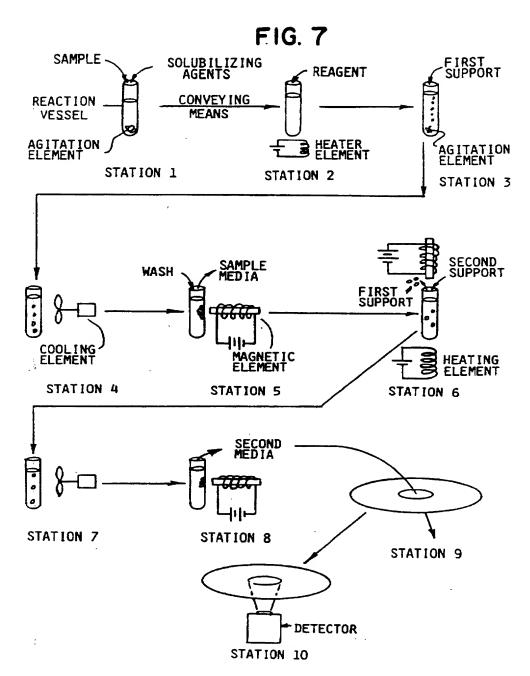
C' B' A' HOMOPOLYMER TAILS

STEP 2

ISOLATE BEAD

TARGET DNA (SUBSTANTIALLY FREE OF SAMPLE IMPURITIES, DEBRI, AND EXTRANEOUS POLYNUCLEOTIDES)

DNA POLYMERASE HEXAMER PRIMERS STEP 3a C FIRST COMPLEMENT TARGET L DENATURE 2.DNA POLYMERASE STEP 3b FIRST COMPLEMENT SECOND COMPLEMENT COMPLEMENT TO FIRST TARGET C, DENATURE LABEL PROBE CAPTURE SUPPORT CAPTURE PROBE STEP 4 TARGET AMPLIFICATION PRODUCT Ш SUPPORT COMPLEMENTARY HOMOPOLYMER TAILS LABEL PROBE CAPTURE PROBE AMPLIFICATION PRODUCT



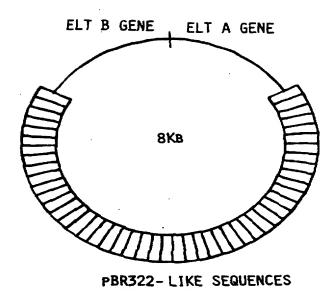


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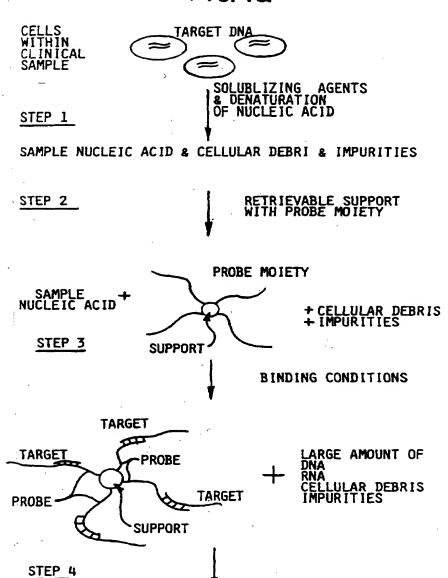
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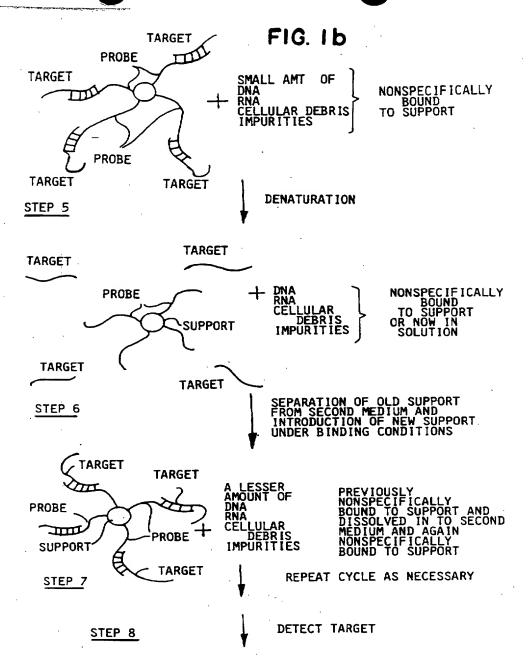
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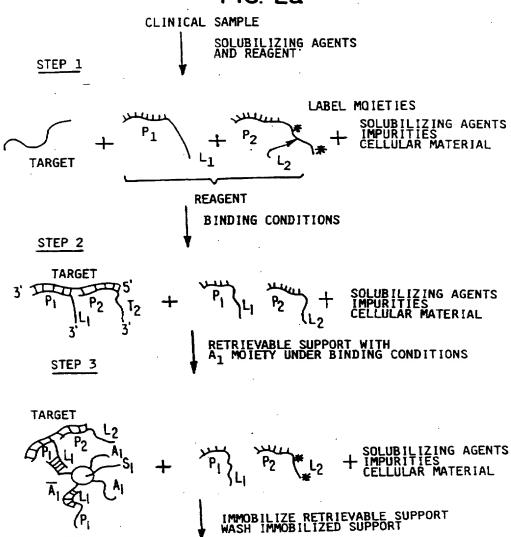
FIG. 1a

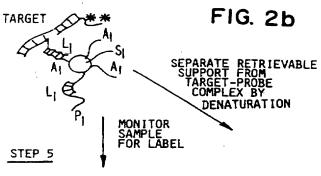




STEP 4

FIG. 2a





STEP 6

REMOVE RETRIEVABLE SUPPORT

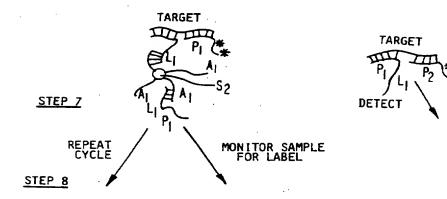


FIG. 3

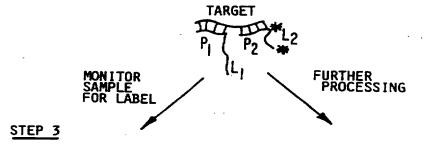
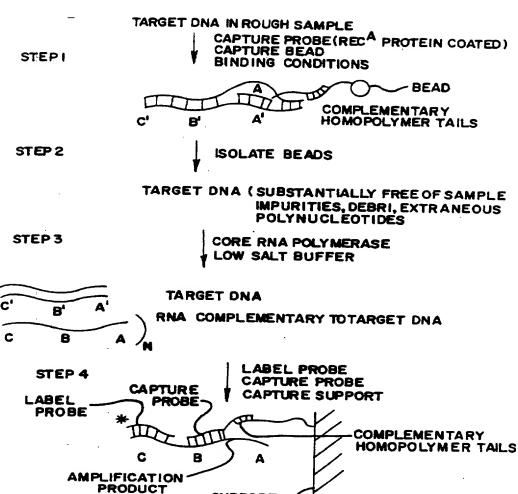


FIG.4



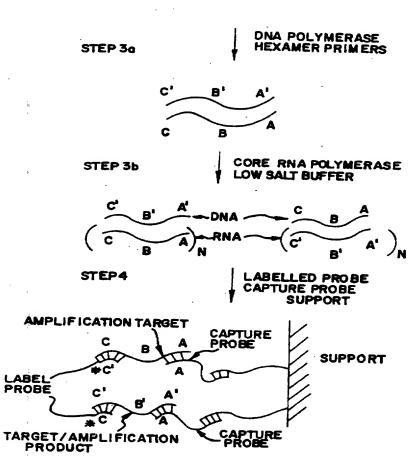
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TARGET DNA IN ROUGH SAMPLE FIG. 5 CAPTURE PROBE CAPTURE BEAD STEP I BEAD c' COMPLEMENTARY HOMOPOLYMER TAILS STEP 2 ISOLATE BEADS

TARGET DNA (SUBSTANTIALLY FREE OF SAMPLE IMPURITIES, DEBRI, EXTRANEOUS POLYNUCLEOTIDES)



STEP 1

CAPTURE PROBE
CAPTURE BEAD

CAPTURE A
PROBE
C' B' A' COMPLE MENTARY
HOMOPOLYMER TAILS

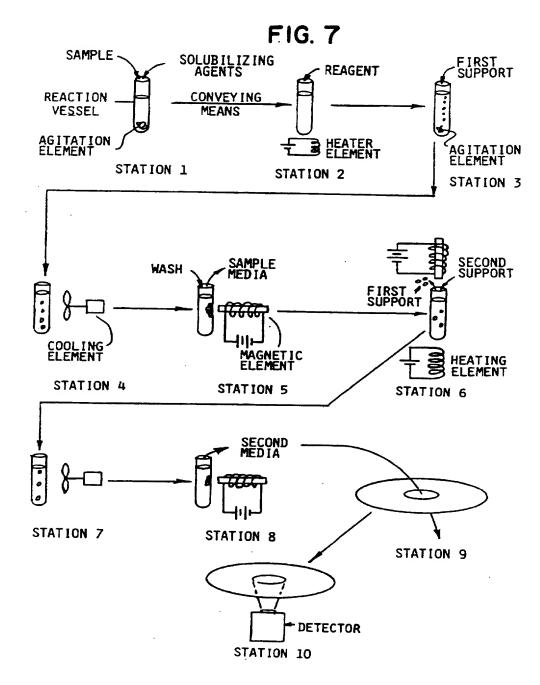
STEP 2

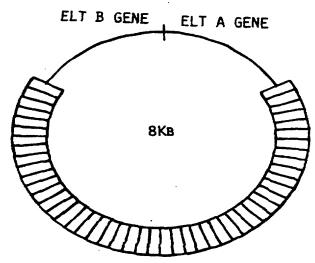
ISOLATE BEAD

TARGET DNA (SUBSTANTIALLY FREE OF SAMPLE IMPURITIES, DEBRI, AND EXTRANEOUS POLYNUCLEOTIDES)

DNA POLYMERASE STEP 3a HEXAMER PRIMERS FIRST COMPLEMENT TARGET L DENATURE 2.DNA POLYMERASE STEP 3b SECOND COMPLEMENT FIRST COMPLEMENT COMPLEMENT TO FIRST TARGE 1 C, DENATURE LABEL PROBE CAPTURE SUPPORT CAPTURE PROBE STEP 4 TARGET AMPLIFICATION PRODUCT \mathbf{H} SUPPORT COMPLEMENTARY HOMOPOLYMER TAILS LABEL PROBE CAPTURE PROBE

AMPLIFICATION PRODUCT





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